Appl. No. 10/615,753 Atty. Docket: 99B024/5

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## Amendments to the Claims

This Listing of Claims will replace all prior versions, and listings of claims in the application:

## **Listing of Claims**

- 1 50. (Canceled)
- 51. (Currently Amended) A method of loading catalyst containing activated SAPO molecular sieve catalyst into a heated system, the method comprising:
  - (a) providing an activated SAPO molecular sieve catalyst having a methanol uptake index of at least 0.15; and
  - (b) loading the activated SAPO molecular sieve catalyst into a heated system, wherein the catalyst is exposed to moisture and maintained at a temperature of 150°C or above during such exposure to moisture and before use of said catalyst in a catalytic process.
- 52. (Previously Presented) The method of claim 51, wherein the provided activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.4.
- 53. (Previously Presented) The method of claim 52, wherein the provided activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.6.
- 54. (Previously Presented) The method of claim 53, wherein the provided activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.8.
- 55. (Previously Presented) The method of claim 51, wherein the activated SAPO molecular sieve catalyst is maintained at a temperature of from 150 to 800°C.
- 56. (Previously Presented) The method of claim 55, wherein the activated SAPO molecular sieve catalyst is maintained at a temperature of from 175 to 600°C.
- 57. (Previously Presented) The method of claim 56, wherein the activated SAPO molecular sieve catalyst is maintained at a temperature of from 200 to 500°C.

- 58. (Previously Presented) The method of claim 51, wherein the heated system comprises a reactor, regenerator or storage environment.
- 59. (Canceled)
- 60. (Previously Presented) The method of claim 51, wherein the activated SAPO molecular sieve comprises molecular sieve selected from the group consisting of SAPO-17, SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, SAPO-56, metal containing forms thereof, and mixtures thereof.
- 61. (Currently Amended) A method of maintaining catalytic activity of an activated SAPO molecular sieve catalyst, the method comprising:
  - (a) loading an activated SAPO molecular sieve catalyst <u>having its catalytically active</u> sites unshielded into a reactor or a regenerator; and
  - (b) exposing said catalyst to moisture and maintaining the activated SAPO molecular sieve catalyst at a temperature of 150°C or above when the catalytic sites of the activated SAPO molecular sieve are exposed to moisture before use of said catalyst in a catalytic process.
- 62. (Previously Presented) The method of claim 61, wherein the activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.15.
- 63. (Previously Presented) The method of claim 62, wherein the activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.4.
- 64. (Previously Presented) The method of claim 63, wherein the activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.6.
- 65. (Previously Presented) The method of claim 64, wherein the activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.8.
- 66. (Previously Presented) The method of claim 61, wherein the activated SAPO molecular sieve catalyst is maintained at a temperature of from 150 to 800°C.

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- 67. (Previously Presented) The method of claim 66, wherein the activated SAPO molecular sieve catalyst is maintained at a temperature of from 175 to 600°C.
- 68. (Previously Presented) The method of claim 67, wherein the activated SAPO molecular sieve catalyst is maintained at a temperature of from 200 to 500°C.
- 69. (Canceled)
- 70. (Previously Presented) The method of claim 61, wherein the activated SAPO molecular sieve catalyst comprises molecular sieve selected from the group consisting of SAPO-17, SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, SAPO-56, metal containing forms thereof, and mixtures thereof.
- 71. (Currently Amended) A method of maintaining catalytic activity of an activated SAPO molecular sieve catalyst, the method comprising:
  - (a) loading an activated SAPO molecular sieve catalyst <u>having its catalytically active</u> sites unshielded into a storage environment; and
  - (b) maintaining the activated SAPO molecular sieve catalyst at a temperature of 150°C or above in the storage environment before use of said catalyst in a catalytic process.
- 72. (Previously Presented) The method of claim 71, wherein the provided activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.4.
- 73. (Previously Presented) The method of claim 72, wherein the provided activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.6.
- 74. (Previously Presented) The method of claim 73, wherein the provided activated SAPO molecular sieve catalyst has a methanol uptake index of at least 0.8.
- 75. (Previously Presented) The method of claim 71, wherein the activated SAPO molecular sieve catalyst is maintained at a temperature of from 150 to 800°C.

- 76. (Previously Presented) The method of claim 75, wherein the activated SAPO molecular sieve catalyst is maintained at a temperature of from 175 to 600°C.
- 77. (Previously Presented) The method of claim 76, wherein the activated SAPO molecular sieve catalyst is maintained at a temperature of from 200 to 500°C.
- 78. (Previously Presented) The method of claim 71, wherein the catalyst of step (b) has catalytic sites exposed to moisture.
- 79. (Previously Presented) The method of claim 71, wherein the activated SAPO molecular sieve comprises molecular sieve selected from the group consisting of SAPO-17, SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, SAPO-56, metal containing forms thereof, and mixtures thereof.
- 80. (Currently Amended) A method of maintaining catalytic activity of an activated SAPO molecular sieve, the method comprising:
  - (a) providing a SAPO molecular sieve having catalytic sites protected against loss of catalytic activity by covering with a shield;
  - (b) removing the shield; and
  - (c) once the shield has been removed, maintaining the molecular sieve at a temperature of at least 150°C, with no shield, while exposing the catalytic sites to moisture before use of said molecular sieve in a catalytic process.
- 81. (Previously Presented) The method of claim 80, wherein the shield is a template, carbonaceous material, anhydrous liquid or anhydrous gas.
- 82. (Previously Presented) The method of claim 81, wherein the shield is a template and the SAPO molecular sieve is stored in wet filter cake form.
- 83. (Previously Presented) The method of claim 81, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.15.

- 84. (Previously Presented) The method of claim 83, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.4.
- 85. (Previously Presented) The method of claim 84, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.6.
- 86. (Previously Presented) The method of claim 85, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.8.
- 87. (Previously Presented) The method of claim 81, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 150 to 800°C.
- 88. (Previously Presented) The method of claim 87, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 175 to 600°C.
- 89. (Previously Presented) The method of claim 88, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 200 to 500°C.
- 90. (Previously Presented) The method of claim 81, wherein the SAPO molecular sieve, in its unshielded form, is maintained in a reactor, regenerator or storage environment.
- 91. (Previously Presented) The method of claim 81, wherein the SAPO molecular sieve comprises molecular sieve selected from the group consisting of SAPO-17, SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, SAPO-56, metal containing forms thereof, and mixtures thereof.
- 92. (Currently Amended) A method of maintaining catalytic activity of an activated SAPO molecular sieve, comprising:
  - (a) providing a SAPO molecular sieve, wherein the molecular sieve is protected from moisture by shielding catalytic sites within the molecular sieve;
  - (b) removing the shield to form an activated molecular sieve; and
  - (c) maintaining the molecular sieve at a temperature of at least 150°C, with no shield, and at a methanol uptake index that does not drop below 0.15 before use of said molecular sieve in a catalytic process.

- 93. (Previously Presented) The method of claim 92, wherein the shield is a template, carbonaceous material, anhydrous liquid or anhydrous gas.
- 94. (Previously Presented) The method of claim 93, wherein the shield is a template and the SAPO molecular sieve is stored in wet filter cake form.
- 95. (Previously Presented) The method of claim 92, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 150 to 800°C.
- 96. (Previously Presented) The method of claim 95, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 175 to 600°C.
- 97. (Previously Presented) The method of claim 96, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 200 to 500°C.
- 98. (Previously Presented) The method of claim 92, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.4.
- 99. (Previously Presented) The method of claim 98, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.6.
- 100. (Previously Presented) The method of claim 99, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.8.
- 101. (Previously Presented) The method of claim 92, wherein the SAPO molecular sieve, in its unshielded form, is maintained in a reactor, regenerator or storage environment.
- 102. (Previously Presented) The method of claim 92, wherein the SAPO molecular sieve comprises molecular sieve selected from the group consisting of SAPO-17, SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, SAPO-56, metal containing forms thereof, and mixtures thereof.
- 103. (Currently Amended) A method of maintaining catalytic activity of an activated SAPO molecular sieve, the method comprising:

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- (a) providing a SAPO molecular sieve, wherein the molecular sieve is protected from moisture by shielding catalytic sites within the molecular sieve;
- (b) removing the shield to form an activated molecular sieve;
- (c) loading the activated SAPO molecular sieve into a storage environment; and
- (d) maintaining the molecular sieve at a temperature of at least 150°C, with no shield, and at a methanol uptake index that does not drop below 0.15 before use of said molecular sieve in a catalytic process.
- 104. (Previously Presented) The method of claim 103, wherein the shield is a template, carbonaceous material, anhydrous liquid or anhydrous gas.
- 105. (Previously Presented) The method of claim 104, wherein the shield is a template and the SAPO molecular sieve is stored in wet filter cake form.
- 106. (Previously Presented) The method of claim 103, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 150 to 800°C.
- 107. (Previously Presented) The method of claim 106, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 175 to 600°C.
- 108. (Previously Presented) The method of claim 107, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 200 to 500°C.
- 109. (Previously Presented) The method of claim 103, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.4.
- 110. (Previously Presented) The method of claim 109, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.6.
- 111. (Previously Presented) The method of claim 110, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.8.

- 112. (Previously Presented) The method of claim 103, wherein the SAPO molecular sieve comprises molecular sieve selected from the group consisting of SAPO-17, SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, SAPO-56, metal containing forms thereof, and mixtures thereof.
- 113. (Currently Amended) A method of maintaining catalytic activity of an activated SAPO molecular sieve, the method comprising:
  - (a) providing a SAPO molecular sieve, wherein the molecular sieve is protected from moisture by shielding catalytic sites within the molecular sieve;
  - (b) removing the shield to form an activated molecular sieve;
  - (c) loading the activated SAPO molecular sieve into a storage environment; and
  - (d) storing or transporting the activated SAPO molecular sieve in an anhydrous environment, and at a methanol uptake index that does not drop below 0.15 before use of said molecular sieve in a catalytic process.
- 114. (Previously Presented) The method of claim 113, wherein the shield is a template, carbonaceous material, anhydrous liquid or anhydrous gas.
- 115. (Currently Amended) The method of claim 114, wherein the shield is a template and the SAPO molecular sieve is stored in wet filter cake form.
- 116. (Previously Presented) The method of claim 113, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 150 to 800°C.
- 117. (Previously Presented) The method of claim 116, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 175 to 600°C.
- 118. (Previously Presented) The method of claim 117, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a temperature of from 200 to 500°C.
- 119. (Previously Presented) The method of claim 113, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.4.

- 120. (Previously Presented) The method of claim 119, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.6.
- 121. (Previously Presented) The method of claim 120, wherein the SAPO molecular sieve, in its unshielded form, is maintained at a methanol uptake index that does not fall below 0.8.
- 122. (Previously Presented) The method of claim 113, wherein the SAPO molecular sieve comprises molecular sieve selected from the group consisting of SAPO-17, SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, SAPO-56, metal containing forms thereof, and mixtures thereof.
- 123. (Previously Presented) The method of claim 113, wherein the anhydrous environment is a gas blanket or a liquid blanket.
- 124. (Previously Presented) The method of claim 123, wherein the anhydrous environment is a gas blanket.
- 125. (Previously Presented) The method of claim 124, wherein the anhydrous gas blanket has less than 1.2 volume percent water.
- 126. (Previously Presented) The method of claim 125, wherein the anhydrous gas blanket has less than 0.2 volume percent water.
- 127. (Previously Presented) The method of claim 126, wherein the anhydrous gas blanket has less than 0.02 volume percent water.
- 128. (Currently Amended) An activated SAPO molecular sieve in a heated system at a temperature of at least 150°C and exposed to moisture before use of said activated molecular sieve in a catalytic process.
- 129. (Currently Amended) The method molecular sieve in a heated system of claim 128, wherein the heated system comprises a reactor, regenerator or storage environment.
- 130. (Currently Amended) A method of maintaining catalytic activity of an activated SAPO molecular sieve, the method comprising:

- (a) providing a SAPO molecular sieve having catalytic sites protected against loss of catalytic activity by covering with a shield;
- (b) removing the shield; and
- (c) storing, transporting or loading into a reactor system, the SAPO molecular sieve, in its unshielded form, in a hydrous environment at a methanol uptake index that does not fall below 0.15, before use of said activated molecular sieve in a catalytic process.
- 131. (Previously Presented) The method of claim 130, wherein the shield is a template, carbonaceous material, anhydrous liquid or anhydrous gas.
- 132. (Previously Presented) The method of claim 131, wherein the shield is a template and the SAPO molecular sieve is stored in wet filter cake form.
- 133. (Previously Presented) The method of claim 132, wherein the SAPO molecular sieve, in its unshielded form, does not fall below 0.4.
- 134. (Previously Presented) The method of claim 133, wherein the SAPO molecular sieve, in its unshielded form, does not fall below 0.6.
- 135. (Previously Presented) The method of claim 134, wherein the SAPO molecular sieve, in its unshielded form, does not fall below 0.8.